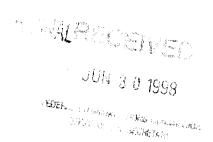
MCI Telecommunications Corporation



1801 Pennsylvania Avenue, NW Washington, DC 20006

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June 30, 1998



EX PARTE OF LATE FILED

Ms. Magalie Roman Salas Secretary Federal Communications Commission 1919 M Street, NW Washington, D.C. 20554

Re:

Ex Parte

Petitions to Implement Section 706 of the Telecommunications Act of 1996,

CC Docket Nos. 98-11, 98-26, 98-32, 98-91

Dear Ms. Salas:

On Monday, June 29, 1998, Glen Grochowski, Senior Engineer at MCI, Chandan Choudhary, Senior Policy Advisor at MCI, and I met with Carol Mattey, Melissa Newman, Jordan Goldstein, Michael Kende, and Jonathan Askin of the CCB Policy and Planning Division, and David Ward of the CCB Network Services Division, concerning petitions for regulatory relief under section 706 filed by Bell Atlantic, U S West Communications, Inc., Ameritech and SBC. The discussion and presentation emphasized the reasons why competitors need access to incumbent local exchange carrier xDSL equipment in order to promote widespread competition in the advanced services market.

Pursuant to section 1.1206(b)(1) of the Commission's rules, MCI hereby submits two copies of this Ex Parte with the Secretary of the Commission for inclusion in the dockets indicated above.

Sincerely,

Kecia Boney

Attachment

cc:

C. Mattey

M. Newman

J. Askin

J. Goldstein

M. Kende

D. Ward

Definition of Digital Subscriber Line

- Digital Subscriber Line (DSL) signifies a modem, or a modem pair applied to a copper loop
- DSL technologies are high speed symmetric and asymmetric communication systems utilizing today's twisted pair copper infrastructure as a transport medium.
- There are many different DSL technologies which include:

Symmetric DSL

IDSL - ISDN DSL

SDSL - Single line DSL

HDSL - High-bit rate DSL

HDSL2 - High-bit rate DSL

VDSL - Very high data rate DSL

Asymmetric DSL

CDSL* - Consumer DSL

ADSL - Asymmetric DSL

VDSL - Very high data rate DSL

^{*} Also referred to as G.lite, UDSL, ADSL lite

DSL System Summary

Copper	Symmetry	Bit Rates	Transmission	Cost per
Pairs		1	Distances	System
1	Symmetrical	128 kb/s	18 kft	\$50 0
1	Symmetrical	768 kb/s	12 k ft	\$10 0 0
1	Symmertical	256 kb/s to 2.048 Mb/s	20 kft to 10 kft	\$1300
2	Symmetrical	384 kb/s	20 kft	\$800
		1.5 44 Mb /s	12 kft (24 kft rptrd) 12	
		2.048 Mb/s	kft	
1	Asymmetrical	Range	18 kft for 1.5 Mb /s	\$600
		DS 1.5 Mb/s - 8 Mb/s	service and 12 kft	
		US 19 Kb/s - 1 Mb/s	for 6-8 Mb/s	
1	Symmetrical	13 Mb/s	3 kft	TBD
		26 Mb/s	1 kft	
1	Asymmetrical	DS 52 Mb/s US 6.4 Mb/s	1 kft	TBD
		DS 26 Mb/s US 3.2 Mb/s	3 kft	
		DS 13 Mb/s US 1.6 Mb/s	4.5 kft	
	Pairs 1 1 1	Pairs 1 Symmetrical 1 Symmetrical 2 Symmetrical 2 Symmetrical 1 Asymmetrical 1 Symmetrical	Pairs 1	Pairs Distances 1 Symmetrical 128 kb/s 18 kft 1 Symmetrical 768 kb/s 12 kft 1 Symmetrical 256 kb/s to 2.048 Mb/s 20 kft to 10 kft 2 Symmetrical 384 kb/s 20 kft 1 1.544 Mb/s 12 kft (24 kft rptrd) 12 2.048 Mb/s kft 1 Asymmetrical Range 18 kft for 1.5 Mb/s 1 Symmetrical DS 1.5 Mb/s - 8 Mb/s service and 12 kft 1 US 19 Kb/s - 1 Mb/s 3 kft 1 Asymmetrical DS 52 Mb/s US 6.4 Mb/s 1 kft 1 Asymmetrical DS 52 Mb/s US 6.4 Mb/s 3 kft

Loop Considerations

- Technology runs over continuous copper loop only
 - DLC systems only with sub-loop unbundling
- ADSL/VDSL can run on top of POTS with passive splitter installed
- HDSL/SDSL needs dry loop for operation
- No load coils. (Load coils act as a high frequency filter that will not pass the higher frequency signals used by the DSL technologies)
- Bridge taps acceptable but limited by length and number
- No repeatered loops
- CSA (Carrier Serving Area) test loops are used to define loop conditions for DSL testing. These test loops are characterized by mixed wire gauge and length, various bridge tap locations and leg distances, etc.
- Maximum transmission distances for DSL technologies is dependent on:

Transmission bit rates

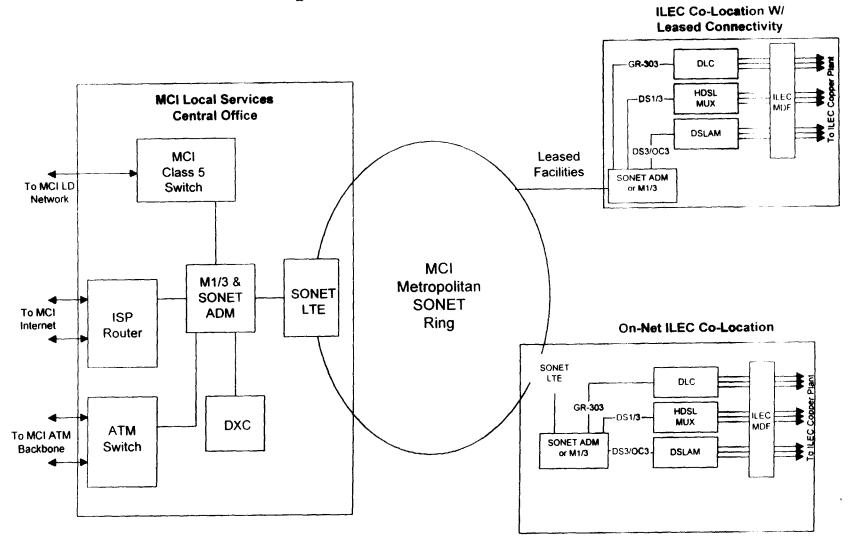
Wire size (19, 22, 24, or 26 gauge)

Bridge taps

DSL Architecture Overview

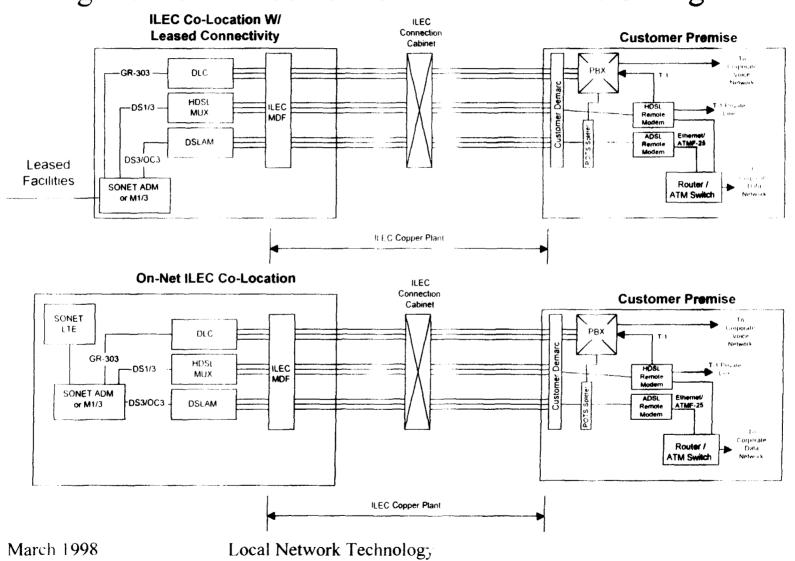
- MCI Metropolitan Network Configuration
 - Shows MCI Metro Ring with On-Net MCI Collo and a Off-Net MCI Collo connected via leased facilities
- Large / Medium Business Customer Premise Configuration
 - Shows MCI Collo connected to large or medium business customers via a unbundled local loop.
 - Customers served with POTS lines, HDSL T1, and HDSL data traffic to corporate networks.
- Small Business / Residential Customer Premise Configuration
 - Shows MCI Collo connected to small business and residential customers via an unbundled local loop.
 - Customers served with POTS lines and high speed data to PC/workstations

Network Architecture MCI Metropolitan Network Configuration

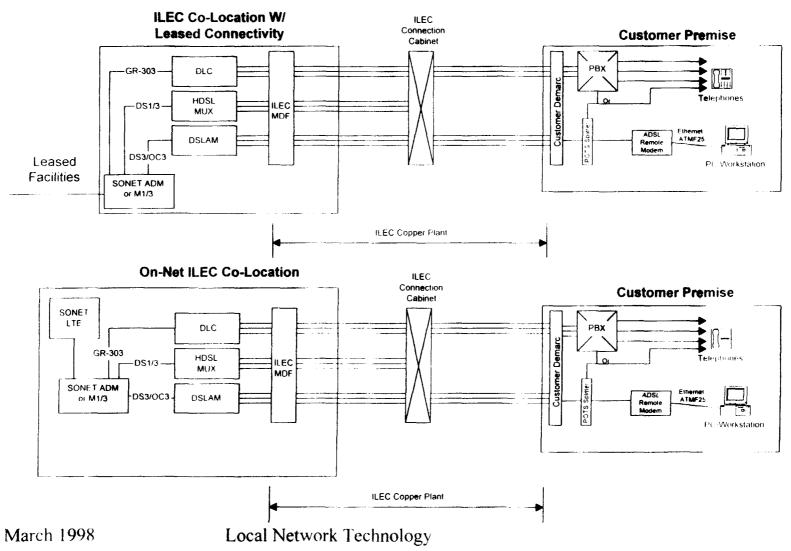


Network Architecture

Large / Medium Business Customer Premise Configuration



Network Architecture Small Business / Residential Customer Premise Configuration



Services

Business

 T-1 Replacement, Video Conferencing, WANs, Voice Trunks, Private Line Data Trunks, Data Network Access, Internet Access

Residential

- Internet Access, LAN Extension, Work At Home,

Regulatory / Contract Issues

- Address undefined / under-defined xDSL conditioned loop requirements
- Favorable and consistent xDSL loop pricing
- Drive cost of services down consistent with cost to provide those services
- Need further details / work on sub-loop unbundling
- Copper availability resolution (DLC deployment, new builds, etc)
- Re-define electronic functionality deployed in a collocation (No switching equipment allowed)
- Service resolution issues with respect to multiple service providers using a single copper pair for customer connection
- Process defined to obtain copper loop demographics from installed plant
- Spectrum / Plant management responsibility